

WO 00/22249

PCT/GB99/03311

CLAIMS:

1. A support assembly (10, 60) characterised in that the assembly (10, 60) comprises first and second parts, each part being of generally planar configuration and comprising a pair of spaced parallel elongate members (12, 14, 62), and a support arrangement (16) extending between the elongate members (12, 14, 62), the first and second parts being mountable together with the planes thereof inclined relative to each other and first ones of the elongate members (12, 62) aligned adjacent and parallel to each other such that the apex defined by the meeting of the first elongate members (12, 62) provides a first support surface, and opposite sides of the other elongate members (14, 62) define second spaced support surfaces.
2. A support assembly according to claim 1, characterised in that the support arrangement (16) comprises a plurality of spaced individual support members (34) extending between the elongate members (12, 14).
3. A support assembly according to claim 2, characterised in that the individual support members (34) comprise metal members.
4. A support assembly according to claim 3, characterised in that the metal members are pressed from metal sheet.
5. A support assembly according to claim 1, characterised in that the support arrangement comprises a substantially planar support member (68).
6. A support assembly according to claim 5, characterised in that planar support members comprise wooden sheets (68).
7. A support assembly according to claim 6, characterised in that the wooden sheets (68) are plywood or glued shavings.

WO 00/22249

PCT/GB99/03311

10

8. A support assembly according to any of the preceding claims, characterised in that the first and second parts are substantially identical to each other.

9. A support assembly according to any of the preceding claims, characterised in that means are provided for bracing apart the other elongate members (12, 14, 62) of the first and second parts.

10. A support assembly according to claim 9, characterised in that the bracing means comprises a bracing bar (42, 44).

11. A support assembly according to claim 9 or 10, characterised in that the bracing means comprise a bracket (46) for mounting the end of the bracing bar (42, 44).

12. A support assembly according to claim 10 or 11, characterised in that bracing bars (42, 44) are provided at least adjacent each end of the elongate members.

13. A support assembly according to any of the preceding claims, characterised in that the elongate members (12, 14, 62) are arranged such that when the first and second parts are mounted together, the top edges of the first elongate members (12, 62) on each part are substantially co-planar to define a first support surface, and lower edges of the other elongate members (14, 62) on each part which define the second support surfaces are also substantially co-planar, and parallel to the top edges of the first elongate members (12, 62).

14. A support assembly according to any of the preceding claims, characterised in that the elongate members (12, 14, 62) are wooden.

15. A support assembly according to any of the preceding claims, characterised in that the elongate members (12, 14) have a rectangular cross-section.

WO 00/22249

PCT/GB99/03311

11

16. A support assembly according to any of claims 1 to 14, characterised in that the elongate members (62) have a cross-section comprising two opposite parallel sides interconnected by a first side perpendicular thereto, and a second side (64) inclined relative to the first side.

17. A support assembly according to claim 16, characterised in that the inclination of the second side determines the inclination between the first and second parts.

18. A support assembly according to claims 16 or 17, characterised in that a pair of elongate members (62) are formed by cutting an elongate rectangular cross-section component longitudinally in half and at an inclination.

19. A support assembly according to claim 18, characterised in that the pair (62) is used adjacent each other respectively each on adjacent first and second parts.

20. A support assembly according to any of the preceding claims, characterised in that each part of the assembly (10, 60) comprises frames which mount the respective elongate member (12, 14, 62) and the support arrangement 16.

21. A support assembly according to any of claims 2 to 4 or any of claims 8 to 20 when dependent on any of claims 2 to 4, characterised in that the individual support members (34) extend at an inclined orientation relative to the elongate members (12, 14).

22. A support assembly according to claim 21, characterised in that adjacent individual support members (34) extend at opposite inclinations to each other.

23. A support assembly according to any of claims 20 to 22, characterised in that the frames comprise an elongate part (18, 20) engagable with an elongate member (12, 14).

WO 00/22249

PCT/GB99/03311

12

24. A support assembly according to claim 23, characterised in that the elongate part (18, 20) comprises a first section (22, 28) locatable alongside a side of the respective elongate member (12, 14) and mounted thereto.

25. A support assembly according to claim 24, characterised in that the first section (22, 28) has a substantially L-shaped configuration and provides support beneath and on one side of the respective elongate member.

26. A support assembly according to any of claims 24 or 25, characterised in that the frames comprise a second section (30) inclined relative to the first section (22, 28) so as to provide the required inclination between the first and second parts.

27. A support assembly according to any of claims 20 to 26, characterised in that a channel (32) is provided on the frame.

28. A support assembly according to claim 27 when dependent on claim 26, characterised in that the second section (30) comprises the channel (32).

29. A support assembly according to claims 27 or 28 when dependent on any of claims 10 to 12, or any of claims 13 to 26 when dependent on any of claims 10 to 12, characterised in that the channel (32) slidably accepts ends of the bracing bars (42, 44), or brackets (46) for mounting ends of the bracing bars (42, 44).

30. A support assembly according to claim 23 or any of claims 24 to 29 when dependent on claim 23, when dependent on any of claims 2 to 4 or any of claims 8 to 22 when dependent on claims 2 to 4, characterised in that the individual support members (34) are formed separately from the elongate parts of the frames.

31. A support assembly according to claim 30 when dependent on any of claims 27 to 29, characterised in that the individual support members (34) are

SCANNED # 8

WO 00/22249

PCT/GB99/03311

13

mounted on the frames by engagement in the channels (32).

32. A support assembly according to claim 31, characterised in that engagement is provided by spreading part of the support members (34) in the channel (32) and/or by riveting or other fixing means.

33. A support assembly according to any of the preceding claims, characterised in that clips (40) are provided for mounting the first and second parts together.

34. A support assembly according to claim 33 when dependent on any of claims 20 to 32, characterised in that the clips (40) are engagable with the respective frames.

35. A support assembly according to claim 34, characterised in that the clips (40) engage with formations on the frame.

36. A support assembly according to claims 34 or 35, characterised in that a lip (26) is provided extendible for part of or the whole length of the frame, in which lip (26) the clip (40) is engagable.

37. A support assembly according to any of claims 33 to 36, characterised in that the clips (40) are sprung.

38. A support assembly according to any of claims 33 to 37, characterised in that the clips (40) extend over the first elongate members (12).

39. A support assembly according to any of claims 33 to 36 when dependent on any of claims 9 to 12, or when dependent on any of claims 13 to 32 when dependent on any of claims 9 to 12 characterised in that the clips (40) are used to temporarily mount the first elongate members (12) together whilst the remainder of the assembly (10, 60) is put together and the bracing (42, 44, 46) installed.

WO 00/22249

PCT/GB99/03311

14

40. A support assembly according to any of the preceding claims, characterised in that the first and second parts are mounted together by pins or pegs (70) extending through adjacent elongate members (12, 14, 62).

41. A support assembly according to any of the preceding claims, characterised in that the support arrangements (16) may be mounted directly on the elongate members (12, 14, 62).

42. A support assembly according to claim 41, characterised in that the support arrangements (16) are mounted on the elongate members (12, 14, 62) by gluing and/or stapling.

43. A support assembly according to any of the preceding claims, characterised in that where the assembly (10, 60) is intended to rest on a wall (58) or other fixture, the first elongate members (12, 62) extend beyond the other elongate members (14, 62) at least at one end thereof.

44. A support assembly according to claim 43, characterised in that a support component (54) is provided on the underside of the extended part of the first elongate members (12, 62) to rest on the wall (58).

45. A support assembly according to claim 44, characterised in that the support component (54) may comprise a wooden block.

46. A support assembly according to any of the preceding claims, characterised in that when an assembly (10, 60) is to be mounted to an adjacent such assembly (10, 60), a connecting member (59) which engages between respective other elongate members (12, 14, 62) is provided.

47. A support assembly according to claim 44, characterised in that the connecting member (59) is elongate with a substantially T-shaped cross section, with the stem of the T locatable between the adjacent elongate members (14, 62), and the head of the T mountable to each of the adjacent elongate members

WO 00/22249

PCT/GB99/03311

15

(14, 62).

48. A support assembly according to any of the preceding claims, characterised in that elongate members (12, 14, 62) on adjacent assemblies (10, 60) may be mounted together by pins or pegs (70) extending therethrough.

49. A support assembly according to any of the preceding claims characterised in that the support assembly (10, 60) is suitable for supporting a floor, roof and/or ceiling.

50. Any novel subject matter or combination including novel subject matter disclosed herein, whether or not within the scope of or relating to the same invention as any of the preceding claims.